

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/547,849  
Source: 1 FWP  
Date Processed by STIC: 11/3/06

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 11/03/2006

PATENT APPLICATION: US/10/547,849

TIME: 10:24:54

Input Set : A:\PROL-P01-040.TXT

Output Set: N:\CRF4\11032006\J547849.raw

4 <110> APPLICANT: Reiss, Yuval  
 5 Taglight, Daniel N.  
 6 Alroy, Iris  
 7 Tuvia, Shmuel  
 8 Barr, Haim Michael  
 11 <120> TITLE OF INVENTION: CBL-B POLYPEPTIDES, COMPLEXES AND  
 12 RELATED METHODS  
 14 <130> FILE REFERENCE: PROL-P01-040  
 16 <140> CURRENT APPLICATION NUMBER: US 10/547,849  
 C--> 17 <141> CURRENT FILING DATE: 2005-09-02  
 19 <150> PRIOR APPLICATION NUMBER: US 60/452,284  
 20 <151> PRIOR FILING DATE: 2003-03-05  
 22 <150> PRIOR APPLICATION NUMBER: US 60/456,640  
 23 <151> PRIOR FILING DATE: 2003-03-20  
 25 <150> PRIOR APPLICATION NUMBER: US 60/469,462  
 26 <151> PRIOR FILING DATE: 2003-05-09  
 28 <150> PRIOR APPLICATION NUMBER: US 60/471,378  
 29 <151> PRIOR FILING DATE: 2003-05-15  
 31 <150> PRIOR APPLICATION NUMBER: US 60/480,376  
 32 <151> PRIOR FILING DATE: 2003-06-19  
 34 <150> PRIOR APPLICATION NUMBER: US 60/480,215  
 35 <151> PRIOR FILING DATE: 2003-06-19  
 37 <160> NUMBER OF SEQ ID NOS: 64  
 39 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
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 42 <211> LENGTH: 2667  
 43 <212> TYPE: DNA  
 44 <213> ORGANISM: Homo sapiens  
 46 <400> SEQUENCE: 1  
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 48 gcttctgcga aggtcttgcc ttgccagcat acgttttgca agcgatgttt gctggggatc 120  
 49 gtaggttctc gaaatgaact cagatgtccc gagtgcagga ctctgttggt ctcgggtgtc 180  
 50 gaggagcttc ccagtaacat cttgctggtc agacttctgg atggcatcaa acagaggcct 240  
 51 tggaaacctg gtccctggtg gggaaagtgg accaactgca caaatgcatt aaggtctcag 300  
 52 agcagcactg tggctaattg tagctcaaaa gatctgcaga gctcccaggg cggacagcag 360  
 53 cctcgggtgc aatcctggag cccccagtg aggggtatac ctcagttacc atgtgccaaa 420  
 54 gcgttataca actatgaagg aaaagagcct ggagacctta aattcagcaa aggcgacatc 480  
 55 atcattttgc gaagacaagt ggatgaaaat tggtagcatg gggaaagtcaa tggaaatccat 540  
 56 ggctttttcc ccaccaactt tgtgcagatt attaaaccgt tacctcagcc cccacctcag 600  
 57 tgcaaagcac tttatgactt tgaagtgaag gacaaggaag cagacaaaaga ttgccttcca 660  
 58 tttgcaaagg atgatgttct gactgtgatc cgaagagtgg atgaaaactg ggctgaagga 720  
 59 atgctggcag acaaaaatagg aatatttcca atttcatatg ttgagttaa ctcggctgct 780  
 60 aagcagctga tagaatggga taagcctcct gtgccaggag ttgatgctgg agaattgtcc 840

*see p. 6*

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61 tcggcagcag cccagagcag cactgcccc aagcactccg acaccaagaa gaacacccaaa 900
62 aagcggcact ccttcacttc cctcactatg gccacaagt cctcccaggc atcccagaac 960
63 cgccactcca tggagatcag cccccctgtc ctcatcagct ccagcaaccc cactgctgct 1020
64 gcacggatca gcgagctgtc tgggctctcc tgcagtgcc cttctcaggt tcatataagt 1080
65 accaccgggt taattgtgac cccgccccca agcagcccag tgacaactgg cccctcgttt 1140
66 actttcccat cagatgttcc ctaccaagt gcccttgaa ctttgaatcc tcctcttcca 1200
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68 gctgctgctg ctggaatggg accgaggccc atggcaggat ccactgacca gattgcacat 1320
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71 ggctggttca aaggacatc catgcatacc agcaagatag ggtttttccc tggcaattat 1500
72 gtggcaccag tcacaagggc ggtgacaaat gcttcccaag ctaaagtccc tatgtctaca 1560
73 gctggccaga caagtcgggg agtgaccatg gtcagtcctt ccacggcagg agggcctgcc 1620
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88 cctgtcttga atgagtctag acctgtcgtt tgtgaaaggc acagggtggt ggtttcctat 2520
89 cctctcaga gtgaggcaga acttgaactt aaagaaggag atattgtgtt tgttcataaa 2580
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91 ccaggaagct ttgtggaaaa catatga 2667

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93 &lt;210&gt; SEQ ID NO: 2

94 &lt;211&gt; LENGTH: 888

95 &lt;212&gt; TYPE: PRT

96 &lt;213&gt; ORGANISM: Homo sapiens

98 &lt;400&gt; SEQUENCE: 2

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100 1 5 10 15
101 Glu Arg Leu Asp Ala Ser Ala Lys Val Leu Pro Cys Gln His Thr Phe
102 20 25 30
103 Cys Lys Arg Cys Leu Leu Gly Ile Val Gly Ser Arg Asn Glu Leu Arg
104 35 40 45
105 Cys Pro Glu Cys Arg Thr Leu Val Gly Ser Gly Val Glu Glu Leu Pro
106 50 55 60
107 Ser Asn Ile Leu Leu Val Arg Leu Leu Asp Gly Ile Lys Gln Arg Pro
108 65 70 75 80
109 Trp Lys Pro Gly Pro Gly Gly Gly Ser Gly Thr Asn Cys Thr Asn Ala
110 85 90 95
111 Leu Arg Ser Gln Ser Ser Thr Val Ala Asn Cys Ser Ser Lys Asp Leu

```

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```

112          100          105          110
113 Gln Ser Ser Gln Gly Gly Gln Gln Pro Arg Val Gln Ser Trp Ser Pro
114          115          120          125
115 Pro Val Arg Gly Ile Pro Gln Leu Pro Cys Ala Lys Ala Leu Tyr Asn
116          130          135          140
117 Tyr Glu Gly Lys Glu Pro Gly Asp Leu Lys Phe Ser Lys Gly Asp Ile
118 145          150          155          160
119 Ile Ile Leu Arg Arg Gln Val Asp Glu Asn Trp Tyr His Gly Glu Val
120          165          170          175
121 Asn Gly Ile His Gly Phe Phe Pro Thr Asn Phe Val Gln Ile Ile Lys
122          180          185          190
123 Pro Leu Pro Gln Pro Pro Pro Gln Cys Lys Ala Leu Tyr Asp Phe Glu
124          195          200          205
125 Val Lys Asp Lys Glu Ala Asp Lys Asp Cys Leu Pro Phe Ala Lys Asp
126          210          215          220
127 Asp Val Leu Thr Val Ile Arg Arg Val Asp Glu Asn Trp Ala Glu Gly
128 225          230          235          240
129 Met Leu Ala Asp Lys Ile Gly Ile Phe Pro Ile Ser Tyr Val Glu Phe
130          245          250          255
131 Asn Ser Ala Ala Lys Gln Leu Ile Glu Trp Asp Lys Pro Pro Val Pro
132          260          265          270
133 Gly Val Asp Ala Gly Glu Cys Ser Ser Ala Ala Ala Gln Ser Ser Thr
134          275          280          285
135 Ala Pro Lys His Ser Asp Thr Lys Lys Asn Thr Lys Lys Arg His Ser
136          290          295          300
137 Phe Thr Ser Leu Thr Met Ala Asn Lys Ser Ser Gln Ala Ser Gln Asn
138 305          310          315          320
139 Arg His Ser Met Glu Ile Ser Pro Pro Val Leu Ile Ser Ser Ser Asn
140          325          330          335
141 Pro Thr Ala Ala Ala Arg Ile Ser Glu Leu Ser Gly Leu Ser Cys Ser
142          340          345          350
143 Ala Pro Ser Gln Val His Ile Ser Thr Thr Gly Leu Ile Val Thr Pro
144          355          360          365
145 Pro Pro Ser Ser Pro Val Thr Thr Gly Pro Ser Phe Thr Phe Pro Ser
146          370          375          380
147 Asp Val Pro Tyr Gln Ala Ala Leu Gly Thr Leu Asn Pro Pro Leu Pro
148 385          390          395          400
149 Pro Pro Pro Leu Leu Ala Ala Thr Val Leu Ala Ser Thr Pro Pro Gly
150          405          410          415
151 Ala Thr Ala Ala Ala Ala Ala Ala Gly Met Gly Pro Arg Pro Met Ala
152          420          425          430
153 Gly Ser Thr Asp Gln Ile Ala His Leu Arg Pro Gln Thr Arg Pro Ser
154          435          440          445
155 Val Tyr Val Ala Ile Tyr Pro Tyr Thr Pro Arg Lys Glu Asp Glu Leu
156          450          455          460
157 Glu Leu Arg Lys Gly Glu Met Phe Leu Val Phe Glu Arg Cys Gln Asp
158 465          470          475          480
159 Gly Trp Phe Lys Gly Thr Ser Met His Thr Ser Lys Ile Gly Val Phe
160          485          490          495

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Output Set: N:\CRF4\11032006\J547849.raw

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161 Pro Gly Asn Tyr Val Ala Pro Val Thr Arg Ala Val Thr Asn Ala Ser
162          500          505          510
163 Gln Ala Lys Val Pro Met Ser Thr Ala Gly Gln Thr Ser Arg Gly Val
164          515          520          525
165 Thr Met Val Ser Pro Ser Thr Ala Gly Gly Pro Ala Gln Lys Leu Gln
166          530          535          540
167 Gly Asn Gly Val Ala Gly Ser Pro Ser Val Val Pro Ala Ala Val Val
168 545          550          555          560
169 Ser Ala Ala His Ile Gln Thr Ser Pro Gln Ala Lys Val Leu Leu His
170          565          570          575
171 Met Thr Gly Gln Met Thr Val Asn Gln Ala Arg Asn Ala Val Arg Thr
172          580          585          590
173 Val Ala Ala His Asn Gln Glu Arg Pro Thr Ala Ala Val Thr Pro Ile
174          595          600          605
175 Gln Val Gln Asn Ala Ala Gly Leu Ser Pro Ala Ser Val Gly Leu Ser
176          610          615          620
177 His His Ser Leu Ala Ser Pro Gln Pro Ala Pro Leu Met Pro Gly Ser
178 625          630          635          640
179 Ala Thr His Thr Ala Ala Ile Ser Ile Ser Arg Ala Ser Ala Pro Leu
180          645          650          655
181 Ala Cys Ala Ala Ala Ala Pro Leu Thr Ser Pro Ser Ile Thr Ser Ala
182          660          665          670
183 Ser Leu Glu Ala Glu Pro Ser Gly Arg Ile Val Thr Val Leu Pro Gly
184          675          680          685
185 Leu Pro Thr Ser Pro Asp Ser Ala Ser Ser Ala Cys Gly Asn Ser Ser
186          690          695          700
187 Ala Thr Lys Pro Asp Lys Asp Ser Lys Lys Glu Lys Lys Gly Leu Leu
188 705          710          715          720
189 Lys Leu Leu Ser Gly Ala Ser Thr Lys Arg Lys Pro Arg Val Ser Pro
190          725          730          735
191 Pro Ala Ser Pro Thr Leu Glu Val Glu Leu Gly Ser Ala Glu Leu Pro
192          740          745          750
193 Leu Gln Gly Ala Val Gly Pro Glu Leu Pro Pro Gly Gly Gly His Gly
194          755          760          765
195 Arg Ala Gly Ser Cys Pro Val Asp Gly Asp Gly Pro Val Thr Thr Ala
196          770          775          780
197 Val Ala Gly Ala Ala Leu Ala Gln Asp Ala Phe His Arg Lys Ala Ser
198 785          790          795          800
199 Ser Leu Asp Ser Ala Val Pro Ile Ala Pro Pro Pro Arg Gln Ala Cys
200          805          810          815
201 Ser Ser Leu Gly Pro Val Leu Asn Glu Ser Arg Pro Val Val Cys Glu
202          820          825          830
203 Arg His Arg Val Val Val Ser Tyr Pro Pro Gln Ser Glu Ala Glu Leu
204          835          840          845
205 Glu Leu Lys Glu Gly Asp Ile Val Phe Val His Lys Lys Arg Glu Asp
206          850          855          860
207 Gly Trp Phe Lys Gly Thr Leu Gln Arg Asn Gly Lys Thr Gly Leu Phe
208 865          870          875          880
209 Pro Gly Ser Phe Val Glu Asn Ile

```

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Output Set: N:\CRF4\11032006\J547849.raw

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213 <210> SEQ ID NO: 3
214 <211> LENGTH: 5128
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216 <213> ORGANISM: Homo sapiens
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221 gttacatgag tcatTTtaag ggatgcacac aactatgaac atttctgaag attttttctc 180
222 agtaaagtag ataaagatgg atgaatcagc cttgttggat cttttggagt gtccggtgtg 240
223 tctagagcgc cttgatgctt ctgcgaaggt cttgccttgc cagcatacgt tttgcaagcg 300
224 atgtttgctg gggatcgtag gttctcgaaa tgaactcaga tgtcccagat gcaggactct 360
225 tgttggctcg ggtgtcgagg agcttcccag taacatcttg ctggtcagac ttctggatgg 420
226 catcaaacag aggccttgga aacctggtcc tggtagggga agtgggacca actgcacaaa 480
227 tgcattaagg tctcagagca gcactgtggc taattgtagc tcaaaaagatc tgcagagctc 540
228 ccaggggcga cagcagcctc ggggtgcaatc ctggagcccc ccagtgaggg gtatacctca 600
229 gttaccatgt gccaaagcgt tatacaacta tgaaggaaaa gagcctggag accttaaatt 660
230 cagcaaaggc gacatcatca ttttgcgaag acaagtggat gaaaatttgt accatgggga 720
231 agtcaatgga atccatgggt ttttccccac caactttgtg cagattatta aaccgttacc 780
232 tcagcccccä cctcagtgca aagcacttta tgactttgaa gtgaaagaca aggaagcaga 840
233 caaagattgc cttccatttg caaaggatga tgttctgact gtgatccgaa gagtggatga 900
234 aaactgggct gaaggaatgc tggcagacaa aataggaata tttccaattt catatgttga 960
235 gttaaactcg gctgctaagc agctgataga atgggataag cctcctgtgc caggagttga 1020
236 tgctggagaa tgttcctcgg cagcagccca gagcagcact gccccaaagc actccgacac 1080
237 caagaagaac accaaaaagc ggcaactcct cacttccttc actatggcca acaagtcctc 1140
238 ccaggcatcc cagaaccgcc actccatgga gatcagcccc cctgtcctca tcagctccag 1200
239 caaccccact gctgtcgcac ggatcagcga gctgtctggg ctctcctgca gtgccccttc 1260
240 tcaggttcat ataagtacca ccgggttaat tgtgaccccg cccccaagca gcccagtgac 1320
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243 aggcgccacc gccgcgcgtg ctgctgctgg aatgggaccg agggccatgg caggatccac 1500
244 tgaccagatt gcacatttac ggccgcagac tcgccccagt gtgtatgttg ctatatatcc 1560
245 atacactcct cggaaagagg atgaactaga gctgagaaaa ggggagatgt ttttagtgtt 1620
246 tgagcgctgc caggatggct ggttcaaagg gacatccatg cataccagca agataggggt 1680
247 tttccctggc aattatgtgg caccagtcac aagggcggtg acaaatgctt cccaagctaa 1740
248 agtccctatg tctacagctg gccagacaag tcggggagtg accatggtca gtccttcac 1800
249 ggcaggaggg cctgcccaga agctccaggg aaatggcgtg gctgggagtc ccagtgttgt 1860
250 cccgcagct gtggtatcag cagctcacat ccagacaagt cctcaggcta aggtcttggt 1920
251 gcacatgacg gggcaaatga cagtcaacca ggcccgaat gctgtgagga cagttgcagc 1980
252 gcacaaccag gaacgccccä cggcagcagt gacacccatc caggtaacaga atgccgccgg 2040
253 cctcagccct gcactgttg gctgtccca tcactcgctg gcttccccac aacctgcgcc 2100
254 tctgatgcca ggtcagcca cgcacactgc tgccatcagt atcagtcgag ccagtgcgcc 2160
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## RAW SEQUENCE LISTING ERROR SUMMARY

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FYI

Input Set : A:\PROL-P01-040.TXT

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:43; N Pos. 4,10,12,13,58,74,136,206,222,237,254,385,1336,1344,1347

Seq#:43; N Pos. 1350,1380,1392,1395,1400,1445

## VERIFICATION SUMMARY

DATE: 11/03/2006

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Input Set : A:\PROL-P01-040.TXT

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L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:1610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0  
L:1611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:60  
L:1612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:120  
L:1613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:180  
L:1614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:240  
L:1616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:360  
L:1632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:1320  
L:1633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:1380  
L:1634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:1440